

## TEST REPORT

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The results relate only to the item tested.

Number: BKKH17008329

Applicant: PLAN CREATIONS CO., LTD.  
8 MOO 8, TRANG-PALIAN RD.,  
YANTAKAO, TRANG, THAILAND 92140  
ATTN: K.NARONG, K.SUPAPORN

Date: Aug 28, 2017

### Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	July 07, 2017
Date information received:	August 24, 2017
Date sample resubmitted:	August 21, 2017

### Client Information:

One (1) set of submitted sample said to be NUTS & BOLTS

Item Name:	NUTS & BOLTS
Item Number:	5644



BKKH17008329

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### Test conducted:

As requested by the applicant, for details please refer to attached page(s)

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To be continued

Authorized by :  
For Intertek Testing Services (Thailand) Ltd.,  
Hardlines Laboratory

*Ladtaka*

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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### Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	U.S. ASTM F963-16 for Physical and mechanical tests	Pass
	U.S. ASTM F963-16 for Flammability test of materials other than textile materials	Pass
	U.S. ASTM F963-11 and ASTM F963-16 for Heavy elements Test	Pass
	<u>Standard - U.S. CFR title 16</u> (CPSC regulations) Part 1303 total Lead content	Pass
	<u>Standard</u> U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in surface coating	Pass
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in non-surface coating material (substrate)	Pass
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 108 Requirement on phthalates	Pass
	Phthalate Content Requirement base on the California Proposition 65	Pass
	Illinois Lead Poisoning Prevention Act 410 ILCS 45 section 6 (public act 095-1019)	Pass

Remark: As requested by the applicant, the test was conducted only on components listed in this report.  
Other components were not tested.

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**Remark:**

The chemical test results was not conducted on the below components of samples. Applicant claimed the components were tested on our previous test report.

<u>Components</u>	<u>Report No.</u>	<u>Date</u>
<u>ASTM F963-11: Heavy metal</u>		
ORANGE SAWDUST (15586)	BKKH16015586	Nov 03,2016
RED SAWDUST	BKKH16016103	Nov 15,2016
BLUE SAWDUST (299C)	BKKH16017877	Dec 29,2016
BLUE SAWDUST (320C)	BKKH16017877	Dec 29,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
ORANGE SAWDUST	BKKH16017878	Dec 28,2016
Solid Wood	BKKH17000142	Jan 10,2017
<u>ASTM F963-16: Heavy metal</u>		
BROWN PLASTIC	BKKH17003197	Mar 13,2017
<u>Lead in substrate</u>		
ORANGE SAWDUST (15586)	BKKH16015586	Nov 03,2016
RED SAWDUST	BKKH16016103	Nov 15,2016
BLUE SAWDUST (299C)	BKKH16017877	Dec 29,2016
BLUE SAWDUST (320C)	BKKH16017877	Dec 29,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
ORANGE SAWDUST	BKKH16017878	Dec 28,2016
Solid Wood	BKKH17000142	Jan 10,2017
BROWN PLASTIC	BKKH17003197	Mar 13,2017
<u>Phthalate content</u>		
ORANGE SAWDUST (15586)	BKKH16015586	Nov 03,2016
RED SAWDUST	BKKH16016103	Nov 15,2016
BLUE SAWDUST (299C)	BKKH16017877	Dec 29,2016
BLUE SAWDUST (320C)	BKKH16017877	Dec 29,2016
GREEN SAWDUST (375C)	BKKH16017877	Dec 29,2016
ORANGE SAWDUST	BKKH16017878	Dec 28,2016
BROWN PLASTIC	BKKH17003197	Mar 13,2017

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Test conducted:

1 Physical And Mechanical Tests▲

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Age group for testing : For age over 2 years.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -

Test	FHSA	Parameter
Drop test	Section 1500.52(b)	4 x 3.0 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Clause	Testing items	Assessment
4.1	Material quality	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	P
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	NA
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA

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Test conducted:

Clause	Testing items	Assessment
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labelling requirement	P
6	Instructional literature	P
7	Producer's markings	
	- name of producer (package)	Yes
	- address (package)	Yes

Remark : P = Pass F = Fail NA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

The submitted samples were undergone the tests in accordance with clause 8.5 through clause 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Testing period : July 07, 2017 to August 20, 2017

### 2 Flammability Test<sup>▲</sup>

Test Standard : Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Results : Did not ignite

Testing period : July 07, 2017 to July 27, 2017

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Number: BKKH17008329

Test conducted:

### 3 Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and F963-16<sup>▲</sup>, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			<u>Result</u> <u>mg/kg</u>			<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(1)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	<4	<4	7	<4	<4	1	5	1000
Sol. Lead (Pb)	ND	<4	<4	<4	<4	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	ND	2	5	25

Remark: Sol. = Soluble  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than  
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) =	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2) =	RED SAWDUST	Refer	BKKH16016103
(3) =	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4) =	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5) =	GREEN SAWDUST (375C)	Refer	BKKH16017877

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.

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Number: BKKH17008329

Test conducted:

### Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and F963-16<sup>▲</sup>, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(6)	(7)	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	<4	ND	ND	1	5	1000
Sol. Lead (Pb)	<4	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	2	5	25

Remark: Sol. = Soluble  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than  
▲ = Tested items are not included in the TISI Accreditation

### Tested components:

(6) =	ORANGE SAWDUST	Refer	BKKH16017878
(7) =	Solid Wood	Refer	BKKH17000142
(8) =	BROWN PLASTIC	Refer	BKKH17003197

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.

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Test conducted:

### Total Lead (Pb) Content<sup>▲</sup>

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and F963-16, test method CPSC-CH-E1001-08.3:2012, CPSC-CH-E1002-08.3:2012 were used and total Lead content was determined by ICP-OES analysis.

### (II) Non-surface coating

<u>Tested Component</u>	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>(mg/kg)</u>	<u>LOQ</u> <u>(mg/kg)</u>	<u>Limit</u> <u>(mg/kg)</u>
(1)	<13	1	13	100
(2)	<13	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD) < = Less than  
<sup>▲</sup> = Tested items are not included in the TISI Accreditation

### Tested components:

(1) =	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2) =	RED SAWDUST	Refer	BKKH16016103
(3) =	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4) =	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(6) =	ORANGE SAWDUST	Refer	BKKH16017878
(7) =	Solid Wood	Refer	BKKH17000142
(8) =	BROWN PLASTIC	Refer	BKKH17003197

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Test conducted:

- 6 Total lead (Pb) content in substrate material- non-metal children's product ▲  
As per U.S. Consumer product safety improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, CPSC-CH-E1002-08.3:2012 method was used and total lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

<u>Tested component</u>	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
(1)	<13	1	13	100
(2)	<13	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD) < = Less than  
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) =	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2) =	RED SAWDUST	Refer	BKKH16016103
(3) =	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4) =	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5) =	GREEN SAWDUST (375C)	Refer	BKKH16017877
(6) =	ORANGE SAWDUST	Refer	BKKH16017878
(7) =	Solid Wood	Refer	BKKH17000142
(8) =	BROWN PLASTIC	Refer	BKKH17003197

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Test conducted:

### 7 Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)					LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)	NPR (%, w/w)
	(1)	(2)	(3)	(4)	(5)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.  
The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking

%, w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) =	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2) =	RED SAWDUST	Refer	BKKH16016103
(3) =	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4) =	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5) =	GREEN SAWDUST (375C)	Refer	BKKH16017877

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Test conducted:

### Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)		LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)	NPR (%, w/w)
	(6)	(7)				
Dibutyl Phthalate (DBP)	ND	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP) <sup>▲</sup>	ND	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP) <sup>▲</sup>	ND	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.  
The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking

%, w/w = Percentage weight by weight

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Tested components:

(6) = ORANGE SAWDUST

Refer BKKH16017878

(7) = BROWN PLASTIC

Refer BKKH17003197

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Number: BKKH17008329

Test conducted:

### 8 Phthalate content test<sup>▲</sup>

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)					LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
	(1)	(2)	(3)	(4)	(5)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1

Remark :     %, w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Note :     The above limit was quoted according to the California Proposition 65

Tested components:

(1) =	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2) =	RED SAWDUST	Refer	BKKH16016103
(3) =	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4) =	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5) =	GREEN SAWDUST (375C)	Refer	BKKH16017877

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Test conducted:

### Phthalate content test<sup>▲</sup>

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (%, w/w)		LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
	(6)	(7)			
Dibutyl Phthalate (DBP)	ND	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	0.0015	0.009	0.1
Dioctyl Phthalate (DNOP)	ND	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	0.0015	0.003	0.1

Remark :      %, w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Note :      The above limit was quoted according to the California Proposition 65

Tested components:

(6) = ORANGE SAWDUST

Refer BKKH16017878

(7) = BROWN PLASTIC

Refer BKKH17003197

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Test conducted:

9 Total Lead (Pb) Content▲

As per Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-1019), acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

II Non-surface coating material (substrate)

<u>Tested component</u>	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
(1)	<13	1	13	100
(2)	<13	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100

Remark: < = Less than  
mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD)

Requirement: According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal or state law or regulation.

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Test conducted:

Tested components:

(1)	=	ORANGE SAWDUST (15586)	Refer	BKKH16015586
(2)	=	RED SAWDUST	Refer	BKKH16016103
(3)	=	BLUE SAWDUST (299C)	Refer	BKKH16017877
(4)	=	BLUE SAWDUST (320C)	Refer	BKKH16017877
(5)	=	GREEN SAWDUST (375C)	Refer	BKKH16017877
(6)	=	ORANGE SAWDUST	Refer	BKKH16017878
(7)	=	Solid Wood	Refer	BKKH17000142
(8)	=	BROWN PLASTIC	Refer	BKKH17003197

Note: LOD and LOQ value in this test report were effective since October, 2014

\*\*\*\*\*END\*\*\*\*\*/KS/ST

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